



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Pantoliano *et al.*

Appl. No. 10/057,940

Filed: January 29, 2002

For: **High Throughput Method For
Functionally Classifying Proteins
Identified Using a Genomics
Approach**

Confirmation No. 4865

Art Unit: 1627

Examiner: *To be assigned*

Atty. Docket: 1503.0310002/JAG/JSO

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Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not

be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

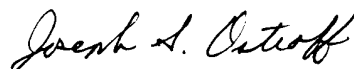
It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



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Date: July 5, 2002

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. SECRET NO.
1503.0310000APPLICATION NO.
10/657,940APPLICANT
Pantoliano et al.FILING DATE
January 29, 2002GROUP
1607

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,963,263	10/16/1990	Kauvar, L.M.	210	635	05/16/1989
	AB1	5,133,866	07/28/1992	Kauvar, L.M.	210	635	10/31/1989
	AC1	5,217,869	06/08/1993	Kauvar, L.M.	435	7.9	10/11/1988
	AD1	5,255,976	10/26/1993	Connolly, P.R.	374	31	07/10/1992
	AE1	5,260,207	11/09/1993	Pantoliano, M.W. et al.	435	221	10/19/1990
	AF1	5,303,425	04/05/1994	Kauvar, L.M.	435	7.9	12/06/1989
	AG1	5,338,659	03/16/1994	Kauvar, L.M. et al.	435	7.1	04/02/1991
	AH1	5,340,474	08/23/1994	Kauvar, L.M.	210	198.2	04/09/1993
	AI1	5,356,784	10/18/1994	Kauvar, L.M.	435	7.9	03/30/1993
	AJ1	5,409,611	04/25/1995	Kauvar, L.M.	210	635	09/02/1993
	AK1	5,463,564	10/31/1995	Agrafiotis, D.K. et al.	364	496	09/16/1994

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 95/18969	07/13/1995	WIPO			Yes No
	AM1	WO 96/23879	08/08/1996	WIPO			Yes No
	AN1	WO 97/09342	03/13/1997	WIPO			Yes No
	AO1	WO 97/14038	04/17/1997	WIPO			Yes No
	AP1	EP 0 770 876 A1	08/02/1997	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	1	Eagshaw, C.F. and D.A. Harris, "Chapter 4. Measurement of Ligand Binding to Proteins," in <i>Spectrophotometry & spectrofluorimetry: a practical approach</i> , Fashford, C.L. and D.A. Harris, eds., IRL Press, Washington, DC, pp. 91-117 (1987).
AS	1	Barceló, F. et al., "A Scanning Calorimetric Study of Natural DNA and Antitumoral Anthracycline Antibiotic-DNA Complexes," <i>Chem.-Biol. Interactions</i> 74:315-324, Elsevier Scientific Publishers Ireland Ltd. (1990).
AT	1	Bell, J.E., "Chapter 4. Fluorescence: Solution Studies," in <i>Spectroscopy in Biochemistry</i> , Volume 1, J.E. Bell, ed., CRC Press, Inc., Boca Raton, FL, pp. 185-194 (1981).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 601. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0310002	APPLICATION NO. 10/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA2	5,525,300	06/11/1996	Danssaert, J.L. et al.	422	99	10/20/1993
	AB2	5,567,317	10/22/1996	Kauvar, L.M.	210	635	03/09/1995
	AC2	5,565,277	12/17/1996	Bowie, J.U. et al.	436	518	03/21/1995
	AD2	5,587,293	12/24/1996	Kauvar, L.M. et al.	435	7.21	01/06/1994
	AE2	5,620,901	04/15/1997	Kauvar, L.M.	436	518	05/05/1994
	AF2	5,673,582	10/21/1997	Bowie, J.U. et al.	436	518	06/21/1994
	AG2	6,020,141	02/01/2000	Pantoliano et al.	425	7.1	05/09/1997
	AH2	6,303,322 B1	10/16/2001	Pantoliano et al.	435	7.1	01/05/2000
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL2	WO 97/20952	06/12/1997	WIPO			Yes No
	AM2	WO 97/42500	11/13/1997	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

OTHER (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AR	P2	Bergdoll, M., et al., "All in the family: Structural and evolutionary relationships among three modular proteins with diverse functions and variable assembly," <i>Protein Sci.</i> 7:1661-1670, Cambridge University Press (August 1998).
	AS	P2	Blattner, F.R., et al., "The Complete Genome Sequence of <i>Escherichia coli</i> K-12," <i>Science</i> 277:1453-1462, American Association for the Advancement of Science (September 1997).
	AT	P2	Bouvier, M. and D.C. Wiley, "Importance of Peptide Amino and Carboxyl Termini to the Stability of MHC Class I Molecules," <i>Science</i> 265:393-402, American Association for the Advancement of Science (1994).
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0310002APPLICATION NO.
16/057,940APPLICANT
Pantoliano et al.FILING DATE
January 29, 2002GROUP
1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>3</u>	Brand, L. and J.R. Gohlke, "Fluorescence Probes for Structure," Ann. Rev. Biochem. 41:843-868, Annual Reviews Inc. (1972).
	AS	<u>3</u>	Brandts, J.F. and L.-N. Lin, "Study of Strong to Ultratight Protein Interactions Using Differential Scanning Calorimetry," Biochemistry 29:6927-6940, American Chemical Society (1990).
	AT	<u>3</u>	Chavan, A.J. and B.E. Haley, "Interaction of Nucleotides with Acidic Fibroblast Growth Factor (FGF-1)," Biochemistry 33:7193-7202, American Chemical Society (1994).

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0310003	APPLICATION NO. 16/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

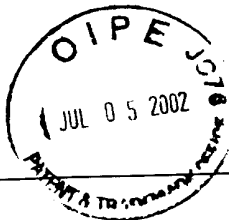
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	Clegg, R.M. et al., "Observing the helical geometry of double-stranded DNA in solution by fluorescence resonance energy transfer," <i>Proc. Natl. Acad. Sci. USA</i> 90:2994-2998, The National Academy of Science (1993).
	AS	<u>4</u>	Davidson, A.R. et al., "Cooperatively folded proteins in random sequence libraries," <i>Nature Structural Biol.</i> 2:856-864, Nature Publishing Group (1995).
	AT	<u>4</u>	Denessiouk, K.A. et al., "Enzyme-monomer interactions: Three different folds share common structural elements for ATP recognition," <i>Protein Sci.</i> 7:1766-1771, Cambridge University Press August 1998.

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1803.0310000	APPLICATION NO. 19/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>5</u>	Dennis, S. et al., "Use of fragments of hirudin to investigate thrombin-hirudin interaction," <i>Eur. J. Biochem.</i> 188:61-66, Springer International and the Federation of European Biochemical Societies (1990).
	AS	<u>5</u>	Diwu, Z. et al., "Fluorescent Molecular Probes. 11. The Synthesis, Spectral Properties and Use of Fluorescent Solvatochromic Dapoxyl Dyes," <i>Photochem. & Photobiol.</i> 66:424-431, American Society for Photobiology (October 1997).
	AT	<u>5</u>	Eftink, M.R. et al., "The Use of Fluorescence Methods to Monitor Unfolding Transitions in Proteins," <i>Biophys. J.</i> 66:482-501, The Biophysical Society (1994).

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FORM PTO-1449
INFORMATION DISCLOSURE STATEMENTATTY. REFERENCE NO.
1503.0310002APPLICATION NO.
15/057,949APPLICANT
Pantoliano et al.FILING DATE
January 29, 2002GROUP
1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	6	Fraser, C.M. et al., "Complete Genome Sequence of <i>Treponema pallidum</i> , the Syphilis Spirochete," <i>Science</i> 281:375-388, American Association for the Advancement of Science (July 1998).
	AS	6	Hieter, P. and Boguski, M., "Functional Genomics: It's All How You Read It," <i>Science</i> 278:601-602, American Association for the Advancement of Science (October 1997).
	AT	6	Hogg, P.J. and Jackson, C.M., "Fibrin monomer protects thrombin from inactivation by heparin-antithrombin III: Implications for heparin efficacy," <i>Proc. Natl. Acad. Sci. USA</i> 86:3619-3623, National Academy of Sciences (1989).

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TECH CENTER 1800/2900FORM PTO-1449
INFORMATION DISCLOSURE STATEMENTATTY. CLOSET NO.
1803.031000APPLICANT NO.
10/657,940APPLICANT
Pantoliano et al.FILING DATE
January 23, 2002GROUP
1637

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AL						Yes
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	AM						Yes
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	AN						Yes
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	AO						Yes
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Hogg, P.J. and Jackson, C.M., "Formation of a Ternary Complex between Thrombin, Fibrin Monomer, and Heparin Influences the Action of Thrombin on Its Substrates," J. Biol. Chem. 265:248-255, American Society for Biochemistry and Molecular Biology, Inc. (1990).
	AS	1	Hotchkiss, K.A., et al., "Inhibition of Heparin Activity in Plasma by Soluble Fibrin: Evidence for Ternary Thrombin-Fibrin-Heparin Complex Formation," Blood 64:498-503, W.B. Saunders Company (1994).
	AT	2	Janknecht, R., et al., "Rapid and efficient purification of native histidine-tagged protein expressed by recombinant vaccinia virus," Proc. Natl. Acad. Sci. USA 86:8972-8976, National Academy of Sciences (1991).

DATE CONSIDERED

EXAMINER

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FORM ETO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0310002	APPLICATION NO. 10/057,940
	APPLICANT Pantoliaro et al.	
	FILING DATE January 22, 2002	GROUP 1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
							Yes No
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Kan, M. et al., "An Essential Heparin-Binding Domain in the Fibroblast Growth Factor Receptor Kinase," Science 259:1918-1921, American Association for the Advancement of Science (1993).
	AS	8	Lewis, M. et al., "Crystal Structure of the Lactose Operon Repressor and Its Complexes with DNA and Inducer," Science 271:1247-1254, American Association for the Advancement of Science (1996).
	AT	8	Morton, A. et al., "Energetic Origins of Specificity of Ligand Binding in an Interior Nonpolar Cavity of T4 Lysozyme," Biochemistry 34:8564-8575, American Chemical Society (1995).

EXAMINER

DATE CONSIDERED

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. CLOSET NO. 1503.0310002	APPLICATION NO. 16/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 09, 2002	GROUP 1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Nakatani, H., et al., "Temperature-jump Studies on Benzeneboronic Acid-Serine Protease Interactions," J. Biochem. 77:905-908, The Japanese Biochemical Society (1975).
AS	2	Pantoliano, M.W., et al., "Multivalent Ligand-Receptor Binding Interactions in the Fibroblast Growth Factor System Produce a Cooperative Growth Factor and Heparin Mechanism for Receptor Dimerization," Biochemistry 33:10229-10248, American Chemical Society (1994).
AT	2	Pennisi, E., "Laboratory Workhorse Decoded," Science 277:1432-1434, American Association for the Advancement of Science (September 1997).

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DATE CONSIDERED

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1593.0310002APPLICATION NO.
10/057,940APPLICANT
Pantoliano et al.FILING DATE
January 29, 2002GROUP
1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
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	AO						Yes No
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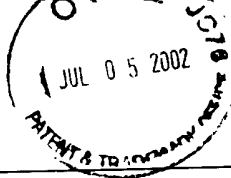
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>10</u>	Qasba, P.K. and Kumar, S., "Molecular Divergence of Lysozymes and α -Lactalbumin," Crit. Rev. Biochem. Mol. Biol. 32:255-306, CRC Press LLC (December 1997).
	AS	<u>10</u>	Rowen, L. et al., "Sequencing the Human Genome," Science 278:605-607, American Association for the Advancement of Science (October 1997).
	AT	<u>12</u>	Schellman, J.A., "Macromolecular Binding," Biopolymers 14:999-1018, John Wiley & Sons, Inc. 1975.

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0310502	APPLICATION NO. 10/957,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>11</u>	Schellman, J.A., "Communications to the Editor. The Effect of Binding on the Melting Temperature of Biopolymers," <i>Biopolymers</i> 15:999-1000, John Wiley & Sons, Inc. (1976).
	AS	<u>11</u>	Schellman, J.A., "The relation between the free energy of interaction and binding," <i>Biophys. Chem.</i> 45:273-279, Elsevier Science Publishers B.V. (1993).
	AT	<u>11</u>	Tapparelli, C. et al., "In Vitro and In Vivo Characterization of a Neutral Boron-containing Thrombin Inhibitor," <i>J. Biol. Chem.</i> 268:4734-4741, American Society for Biochemistry and Molecular Biology, Inc. (1993).

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TECH CENTER 1600/2900

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0310902	APPLICATION NO. 16/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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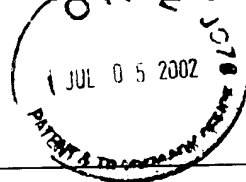
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>12</u>	Tatusov, R.L. et al., "A Genomic Perspective on Protein Families," <i>Science</i> 278:631-637, American Association for the Advancement of Science (October 1997).
	AS	<u>10</u>	Tong, L. et al., "Conserved mode of peptidomimetic inhibition and substrate recognition of human cytomegalovirus protease," <i>Nature Structural Biol.</i> 5:819-826, Nature Publishing Co. (September 1998).
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EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0310000	APPLICATION NO. 10/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
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	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>13</u>	Weber, P.C. et al., "Structure-Based Design of Synthetic Azobenzene Ligands for Streptavidin," J. Am. Chem. Soc. 116:2717-2724, American Chemical Society (1994).
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0310003	APPLICATION NO. 10/057,940
	APPLICANT Pantoliano et al.	
	FILING DATE January 29, 2002	GROUP 1627

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	14	United States Patent Application Publication No. US 2001/0003648 A1, Pantoliano et al., published June 14, 2001.
	AS		
	AT		

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